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TITLE: Optically active 1,2-di:ol prepn. - by reacting enantiomeric dioxolanone
mixt. with pig pancreatic lipase for selective hydrolysis

PATENT-ASSIGNEE: CHISSO CORP (CHCC)

PRIORITY-DATA: 1994JP-0186406 (July 14, 1994)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 08023997 A	January 30, 1996		011	C12P041/00

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 08023997A	July 14, 1994	1994JP-0186406	

INT-CL (IPC): C07 C 31/20; C07 C 43/13; C12 N 9/20; C12 P 41/00

ABSTRACTED-PUB-NO: JP 08023997A

BASIC-ABSTRACT:

Prepn. of an optically active 1,2-diol comprises reacting a pig pancreatic lipase (or mixt. contg. pig pancreatic lipase) which can selectively hydrolyse the carbonate bond of 1 enantiomer in a mixt. of the cyclic carbonate of formula (I), with the enantiomer mixt. to form an optically active 1,2-diol of formula (II) or (III) and an optically active carbonate of the formula (IV) or (V). The 1,2-diol is sepd. from the carbonate and the carbonate is hydrolysed in the presence of an alkali to prepare (II) or (III). Z = Me, O, S, NH, N(CH(CH₃)₂) or a gp. of formula (i), (ii), (iii), or (iv).

USE - The method can be used to prepare non-cyclic optically active (S) and (R)-1,2-diols in with a wide range of carbon numbers.

ABSTRACTED-PUB-NO: JP 08023997A

EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.0/0

DERWENT-CLASS: B05 D16 E19

CPI-CODES: B10-E04C; D05-A02C; E10-B03B; E10-E04C;